WBLE-SL ▶ UECM3463	8-202305-EZZ ▶ Quizzes ▶ 202306UECN	134630E1a ▶ Review of preview	Update this Quiz				
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202306UECM34630E1a							
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Started on Monday, 10 July 2023, 12:13 PM							
Completed on Monday, 10 July 2023, 12:13 PM Time taken 13 secs							
Grade 0 out of a maximum of 10 (0%)							
<b>1</b> 🕏 Marks: 1	A random variable has a mean of 8 a	and coefficient of variation of 2. The third raw moment is 1460. Determine the skewness					
	Answer:	X					
	Make comment or override grade						
	Incorrect						
	Correct answer: -1.268555  Marks for this submission	n: 0/1.					
		·· •/ •·					
2 👺 Marks: 1	Claim severity has the following dist Claim Size 250.0 262.5 275.0 287.5 Probability 0.47 0.29 0.09 0.07 Determine the distribution's Skewne	300.0 0.08					
	Answer:	x					
	Make comment or override grade						
	Incorrect Correct answer: 1.200961						
	Marks for this submission	n: 0/1.					
<b>3 </b>	Claim sizes expressed in Ringgit Mal	aysia(RM) follow a pareto distribution with parameters $\alpha = 2$ and $\theta = 2,350$ . A euro is worth 4.8 RM. Calculate the probability that a claim will be worth 2475.0 euros or more.					
	Answer:	X X					
	Make comment or override grade						
	Incorrect						
	Correct answer: 0.027273  Marks for this submission	n: 0/1.					
		*					
4 👺 Marks: 1	An insurance loss is being modeled a $f_X(x)$ = $c_1 e^{-x/300}$ , $0 < x < 300$ = $c_2 e^{-x/4800}$ , $x \ge 300$ Calculate the average loss.	as a continuous two-spliced distribution as follows:					

Answer:	<b>x</b>					
Make comment or ove Incorrect Correct answer: 4611. Marks for this s						
<b>5</b> 🕏 Marks: 1	or insurance coverage, you are given that claim size, X, follows a gamma distribution with parameters α = 3, θ = 960. Determine V(XΛ 2,000).					
	Answer:					
	Make comment or override grade Incorrect Correct answer: 173961.8 Marks for this submission: 0/1.					
<b>6 ☑</b> Marks: 1	X is a random variable representing loss size. You are given that $E[X \land d] = 445.5 - 297^3/2d^2$ . Loss sizes are affected by 13% inflation. Determine the average payment per loss under a policy with 342 ordinary deductible after inflation					
	Answer:					
	Make comment or override grade Incorrect Correct answer: 161.59817 Marks for this submission: 0/1.					
7 🕏	You are given the following:					
Marks: 1	<ul> <li>Losses follow a Weibull distribution with parameters θ = 26 and τ = 2.</li> <li>The insurance coverage has an ordinary deductible of 12.</li> </ul>					
	If the insurer makes a payment, what is the probability that an insurer's payment is less than or equal to 33					
	Answer:					
	Make comment or override grade Incorrect					
	Correct answer: 0.938119 Marks for this submission: 0/1.					
8 🕏	The distribution of X is specified by it's hazard rate function $h(x) = xe^{-0.5 x} / \int_{x}^{\infty} s e^{-0.5 s} ds, x > 0$					
Marks: 1	Calculate E(X-5) <sub>+</sub>					
	Answer:					
	Make comment or override grade Incorrect					
	Correct answer: 0.7388  Marks for this submission: 0/1.					
<b>9 ☑</b> Marks: 1	Suppose $X \sim N(\mu = 60, \sigma^2 = 144)$ , calculate $E[(X - 36)_+]$					
	Answer:					
	Make comment or override grade					

Incorrect Correct answer: 24.1

Marks for this submission: 0/1.

<b>10</b> 🖢 Marks: 1	A loss, $X$ , follows a Pareto distribution with $\alpha=8$ and unspecified parameter $\theta$ . You are given: Calculate E[ $X$ - 2,480  $X$ > 2,480]		E[X - 940 X > 940] = 2E[X-115 X > 115].	
	Answer:			<b>□ x</b>
	Make comment or override grade Incorrect Correct answer: 455.714286 Marks for this submission: 0/1			

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